

PCT09

RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/868,094

TIME: 14:00:50

Input Set : A:\es.txt

Output Set: N:\CRF3\11142001\I868094.raw

5 <110> APPLICANT: GARCIA-LADONA, Francisco Javier
 6 LANG, Sandra
 8 <120> TITLE OF INVENTION: HOMER A NEW TARGET OF TREATING PSYCHIATRIC DISORDERS
 10 <130> FILE REFERENCE: PA90112
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/868,094
 C--> 14 <141> CURRENT FILING DATE: 2001-10-10
 16 <150> PRIOR APPLICATION NUMBER: DE 98 12 39 43.7
 18 <151> PRIOR FILING DATE: 1998-12-16
 20 <160> NUMBER OF SEQ ID NOS: 10
 22 <170> SOFTWARE: WordPerfect version 6.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 39
 27 <212> TYPE: DNA
 28 <213> ORGANISM: homer rat
 30 <220> FEATURE:
 31 <221> NAME/KEY: misc_feature
 32 <222> LOCATION: 1 ... 39
 33 <223> OTHER INFORMATION: antisense oligonucleotide Homer-AT
 35 <400> SEQUENCE: 1
 36 ctcqagtgcct gaagataggt tgttccccca ttttgccca 39
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 40
 41 <212> TYPE: DNA
 42 <213> ORGANISM: homer rat
 45 <220> FEATURE:
 46 <221> NAME/KEY: misc_feature
 47 <222> LOCATION: 1 ... 40
 48 <223> OTHER INFORMATION: antisense oligonucleotide Homer-BT
 50 <400> SEQUENCE: 2
 51 gtttcacattt ctcttcgcac ttctcctttg ccaqccqagc 40
 54 <210> SEQ ID NO: 3
 55 <211> LENGTH: 408
 56 <212> TYPE: DNA
 57 <213> ORGANISM: homer rat
 59 <220> FEATURE:
 60 <221> NAME/KEY: misc_feature
 61 <222> LOCATION: 1 ... 408
 62 <223> OTHER INFORMATION: Homer gene sequence from HEI.mRNA
 66 <400> SEQUENCE: 3

67 gatttctct ctgaagatca tttttttttt tttttttttt tttttttttt
 68 gctgctgcac taqcaaaqqa aaatcacaa gataagatqg aacttaccag taagcttca
 69 caqaaatccq caqccqqaqqa ttttcagtct cctttaacac cqaqaqta
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,094

DATE: 11/14/2001

TIME: 14:00:50

Input Set : A:\es.txt

Output Set: N:\CRF3\11142001\I868094.raw

83 <211> LENGTH: 139
 84 <212> TYPE: PRT
 85 <213> ORGANISM: homer rat
 87 <220> FEATURE:
 88 <221> NAME/KEY: misc_feature
 89 <222> LOCATION: 1 ... 139
 90 <223> OTHER INFORMATION: corresponding amino acid sequence to Homer gene sequence from

HEL

91 mRNA
 93 <400> SEQUENCE: 4
 95 Ser Thr Arg Ala His Val Phe Gln Ile Asp Pro Asn Thr Lys Lys Asn
 96 1 5 10 15
 99 Trp Val Pro Thr Ser Lys His Ala Val Thr Val Ser Tyr Phe Tyr Asp
 100 20 25 30
 103 Ser Thr Arg Asn Val Tyr Arg Ile Ser Leu Asp Gly Ser Lys Ala
 104 35 40 45
 107 Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe Thr Lys Thr Ser
 108 50 55 60
 111 Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn Thr Val Tyr Gly
 112 65 70 75 80
 115 Leu Gly Phe Ser Ser Glu His His Leu Ser Lys Phe Ala Glu Lys Phe
 116 85 90 95
 119 Gln Glu Phe Lys Glu Ala Ala Arg Leu Ala Lys Glu Lys Ser Gln Glu
 120 100 105 110
 123 Lys Met Glu Leu Thr Ser Thr Pro Ser Gln Glu Ser Ala Gly Gly Asp
 124 115 120 125
 127 Leu Gln Ser Pro Leu Thr Pro Lys Val Asn Gly
 128 130 135

131 <210> SEQ ID NO: 5
 132 <211> LENGTH: 433
 133 <212> TYPE: DNA
 134 <213> ORGANISM: homer rat
 136 <220> FEATURE:
 137 <221> NAME/KEY: misc_feature
 138 <222> LOCATION: 1 ... 433
 139 <223> OTHER INFORMATION: Homer genes equence from U87 mRNA
 142 <400> SEQUENCE: 5

143 atgggggagc aacctatctt cagcactcga gctcatgtct tccaaattga cccaaacaca 60
 145 aagaagaact gggtagccac cagcaagcat gcagttactg tgtcttattt ctatgacagc 120
 147 acaagaaatg tgtataggat aatcagttta gatggtctca agqcaataat aaatagtacc 180
 149 atcaccccaa acatgacatt tactaaaaca tctcagaagt ttggccagtq qgctgatagc 240
 151 cgggcacaaa ccgttttatq atttggattt tctctcagc atcatctttc gaaattttgca 300
 153 gaaaagtttc aggaatttaa agaagctgct cgaactagca agqaaaaatc acaagagaag 360
 155 gaaatcttga ggaatcttga ggaatcttga ggaatcttga ggaatcttga 420

163 <213> ORGANISM: homer rat
 165 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,094

DATE: 11/14/2001

TIME: 14:00:50

Input Set : A:\es.txt

Output Set: N:\CRF3\11142001\I868094.raw

166 <221> NAME/KEY: misc_feature
 167 <223> OTHER INFORMATION: corresponding amino acid sequence to Homer gene sequence
 from U87

168 mRNA

170 <400> SEQUENCE: 6

172 Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile

173 1 5 10 15

176 Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val

177 20 25 30

180 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile

181 35 40 45

184 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn

185 50 55 60

188 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser

189 65 70 75 80

192 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu

193 85 90 95

196 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu

197 100 105 110

200 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser

201 115 120 125

204 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser

205 130 135 140

208 <210> SEQ ID NO: 7

210 <211> LENGTH: 428

212 <212> TYPE: DNA

214 <213> ORGANISM: homer rat

218 <220> FEATURE:

220 <221> NAME/KEY: misc_feature

222 <223> OTHER INFORMATION: Homer gene sequence from Astrocyte mRNA (rat)

226 <400> SEQUENCE: 7

227 atgggggaac aacctatctt cagcactcga gctcatgtct tccagatcga cccaaacaca 60

230 aagaaagaact gqgtacccac cagcaagcat qcaqttaact tctcttattt ctatgacacg 120

231 acaaggaatg tctataggat aatcagtcct gacgqctcaa aggaataat aaatagcacc 180

233 atcaetccaa acatgacatt tactaaaaca tctcaaaagt ttgqccaatg gqctgatacg 240

234 cgggcaaaaca ctgtttatgq actgggattc tctctgagc atcatctctc aaaatttgcg 300

237 gaaaagtttc aggaatttaa aqaagctgct cggctggcaa aqgagaagtc qcaggagaag 360

239 atggaactga ccagtacccc ttcacaggaa tcagcaggag gagatcttca gtctccttta 420

241 acaccaga 428

244 <210> SEQ ID NO: 8

245 <211> LENGTH: 142

246 <212> TYPE: PRT

247 <213> ORGANISM: homer rat

250 <221> NAME/KEY: misc_feature

252 <223> OTHER INFORMATION: Astrocyte mRNA (rat)

255 <400> SEQUENCE: 8

257 Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,094

DATE: 11/14/2001

TIME: 14:00:50

Input Set : A:\es.txt

Output Set: N:\CRF3\11142001\I868094.raw

```

258 1           5           10           15
261 Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val
262           20           25           30
265 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile
266           35           40           45
269 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn
270           50           55           60
273 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
274 65           70           75           80
277 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu
278           85           90           95
281 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu
282           100          105          110
285 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser
286           115          120          125
289 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro
290           130          135          140

```

293 <210> SEQ ID NO: 9

294 <211> LENGTH: 414

295 <212> TYPE: DNA

296 <213> ORGANISM: homer rat

298 <220> FEATURE:

299 <221> NAME/KEY: misc_feature

300 <222> LOCATION: 1 ... 414

301 <223> OTHER INFORMATION: Homer gene sequence from CHO mRNA

303 <400> SEQUENCE: 9

```

304 ttcaacactc gagctcatgt ctccagatt gacccaaaca caaagaagaa ctgggtaccc 60
306 accagcaagc atgcagttac tgtatcttat tttatgaca gcacaagaaa tgtatatagg 120
308 ataatacagt tagatggctc aaaggcaata ataaatagca ccatactcc aaacatgaca 180
310 tttaactaaa catctcaaaa gtttgccag tgggctgata gccgggcaaa tactgtttat 240
312 ggaatgggat tctctctga gcatcatct tccaaattg cagaaaagtt tcaggaattt 300
314 aaagaagctg ctctctctgc aaaggaagag tcacaggaga agatggaact gaccagtaca 360
316 ccttcacagg aatcagcagg tggagatctt caqtctctt taacaccgaa aggt 414

```

319 <210> SEQ ID NO: 10

320 <211> LENGTH: 138

321 <212> TYPE: PRF

322 <213> ORGANISM: homer rat

324 <220> FEATURE:

325 <221> NAME/KEY: misc_feature

326 <222> LOCATION: 1 ... 138

327 <223> OTHER INFORMATION: corresponding amino acid sequence to Homer gene sequence
from CHO

328 mRNA

```

340 Asp Ser Thr Ala Asn Val Tyr Ala Ile Leu Ser Leu Asp Lys Ser Lys
341           35           40           45

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,094

DATE: 11/14/2001

TIME: 14:00:50

Input Set : A:\es.txt

Output Set: N:\CRF3\11142001\I868094.raw

```

344 Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe Thr Lys Thr
345      50                      55                      60
348 Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn Thr Val Tyr
349 65                      70                      75                      80
352 Gly Leu Gly Phe Ser Ser Glu His His Leu Ser Lys Phe Ala Glu Lys
353                      85                      90                      95
356 Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu Ala Lys Glu Lys Ser Gln
357                      100                      105                      110
360 Glu Lys Met Glu Leu Thr Ser Thr Pro Ser Gln Glu Ser Ala Gly Gly
361                      115                      120                      125
364 Asp Leu Gln Ser Pro Leu Thr Pro Lys Gly
365      130                      135

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/868,094

DATE: 11/14/2001

TIME: 14:00:51

Input Set : A:\es.txt

Output Set: N:\CRF3\11142001\I868094.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date